1	CLAIMS	
2	What is claimed is:	
3		
1	1. A method of identifying an internet telephony provisioning entity to an internet	et :
2	telephony device, the method comprising:	
3	storing a pre-provisioning contact and a unique device ID number in a non-	
4	volatile memory of the internet telephony device.	
5	receiving a provisioning contact of a provisioning entity assigned to the devi-	e at
6	a pre-provisioning server and storing the provisioning contact in association with a	
7	unique device ID number assigned to the device;	
8	receiving an inquiry initiated from the device to the pre-provisioning server a	the
9	pre-provisioning contact, the inquiry comprising the unique ID number assigned to	he
10	device;	
11	responding to the inquiry with a response that includes the provisioning conf	act
12	that was stored in associate with the unique device ID number of the device.	
13		
1	2. The method of claim 1, wherein the steps of receiving an inquirer and the st	p of
2	responding to the inquiry are performed over a hyper text transport protocol link init	iated
3	by the device to the pre-provisioning server.	
4		
1	3. The method of claim 2, wherein:	
2	wherein the step of storing the provisioning contact in conjunction with the u	nique
3	device ID number comprises:	
4	writing the unique device ID number to a key field of a record in a loo	(-up
5	table; and	
6	writing the provisioning contact to a binary object field of the record in	the
7	look-up table.	
8		
1	4. The method of claim 3 wherein:	
2	the provisioning contact is a provisioning contact selected from a group of	

3	provisioning contacts consisting of a domain name of a provisioning entry point se	rver
4	and a combination of an IP address and port number of a provisioning entry point	
5	server; and	
6	the entry point server is a server that provides the device with provisioning	
7	information selected from a group of provisioning information consisting of a telep	nony
8	configuration parameters associated with the device ID number and identification	of
9	provisioning servers associated with the device ID number which in turn provide	
10	telephony configuration parameters.	
11		
1	5. The method of claim 4, wherein:	
2	the step of receiving a provisioning contact of a provisioning entity comprise	∋s
3	receiving:	
4	the unique device ID number of the device; and	
5	the provisioning contact of the provisioning entity	
6	encapsulated in an IP frame from the provisioning entity.	
7		
1	6. The method of claim 4, wherein:	
2	the step of receiving a provisioning contact of a provisioning entity comprise	es
3	receiving:	
4	the unique device ID number of the device; and	
5	the provisioning contact of the provisioning entity	
6	encapsulated in an IP frame from a point of sale system that assigned the	
7	provisioning entity to the device.	
8		
1	7. A pre-provisioning server for identifying an internet telephony provisioning	entity
2	to an internet telephony device that has both a unique device ID number and a pro-	}-
3	provisioning contact stored in its non-volatile memory; the pre-provisioning server	
4	comprising:	

entity assigned to the device and storing the provisioning contact in association with a

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a management application for receiving a provisioning contact of a provisioning

7	unique device ID number assigned to the device;
8	a device application for:
9	receiving an inquiry initiated from the device to the pre-provisioning server
10	at the pre-provisioning contact, the inquiry comprising the unique ID number assigned to
11	the device; and
12	responding to the inquiry with a response that includes the provisioning
13	contact that was stored in association with the unique device ID number of the device.
14	
1	8. The pre-provisioning server of claim 7, further comprising a web server
2	application for receiving the inquiry and responding to the inquiry over a hyper text
3	transport protocol link initiated by the device to the pre-provisioning server.
4	
1	9. The pre-provisioning server of claim 8:
2	further comprising a look-up table comprising a key field and a binary object field;
3	and
4	wherein the management application stores the provisioning contact in
5	conjunction with the unique device ID number by:
6	writing the unique device ID number to the key field of a record in the look-
7	up table; and
8	writing the provisioning contact to the binary object field of the record in
9	the look-up table.
10	
1	10. The pre-provisioning server of claim 9, wherein:
2	the provisioning contact is a provisioning contact selected from a group of
3	provisioning contacts consisting of a domain name of a provisioning entry point server
4	and a combination of an IP address and port number of a provisioning entry point
5	server; and
6	the entry point server is a server that provides the device with provisioning
7	information selected from a group of provisioning information consisting of a telephony
8	configuration parameters associated with the device ID number and identification of

9	provi	sioning servers associated with the device 1D number which in turn provide
10	telep	hony configuration parameters.
11		
1	11.	The pre-provisioning server of claim 10, wherein:
2		the management application receives a provisioning contact of a provisioning
3	entity	by receiving:
4		the unique device ID number of the device; and
5		the provisioning contact of the provisioning entity
6		encapsulated in an IP frame from the provisioning entity.
7		
1	12.	The method of claim 10, wherein:
2		the management application receives a provisioning contact of a provisioning
3	entity	by receiving:
4		the unique device ID number of the device; and
5		the provisioning contact of the provisioning entity
6		encapsulated in an IP frame from a point of sale system that assigned the
7	provi	sioning entity to the device.
8		
1	13.	An internet telephony device comprising:
2		a non-volatile memory for storing:
3		a unique device ID number assigned to the device; and
4		a pre-provisioning contact;
5		an IP module for communicating with other IP devices over a frame switched
6	netwo	ork using a network configuration and comprising a network configuration module
7	for ob	otaining the network configuration from a DHCP server;
8		an internet telephony provisioning module for:
9		sending an inquiry to the pre-provisioning server at the pre-provisioning
10	conta	act stored in the non-volatile memory, the inquiry comprising the unique ID number
1	store	d in the non-volatile memory;
12		receiving a response to the inquiry that includes a provisioning contact:

13	sending a provisioning inquiry to a provisioning entity associated with the	
14	provisioning contact; and	
15	obtaining provisioning information in response to the provisioning inquiry,	
16	the provisioning information selected from a group of provisioning information consisting	g
17	of a telephony configuration parameters associated with the device ID number and	
18	identification of provisioning servers associated with the device ID number which in turn	n
19	provide telephony configuration parameters.	
20		
1	14. The internet telephony device of claim 13, wherein:	
2	the internet telephony provisioning module:	
3	sends the inquiry to the pre-provisioning server at the pre-provisioning	
4	contact by initiating a hyper text transport protocol link to the pre-provisioning server;	
5	and	
6	receives the response to the inquiry on the hyper text transport protocol	
7	link.	
8		
1	15. The internet telephony device of claim 14, wherein the provisioning contact is a	
2	provisioning contact selected from a group of provisioning contacts consisting of a	
3	domain name of a provisioning entry point server and a combination of an IP address	
4	and port number of a provisioning entry point server.	
5		
1	16. The internet telephony device of claim 15, wherein the internet telephony	
2	provisioning module:	
3	stores the provisioning contact in the non volatile memory in response to	
4	receiving the response that includes a provisioning contact; and	
5	sends the inquiry to the pre-provisioning server at the pre-provisioning contact if	!
6	the provisioning contact in response to determining that the provisioning contact is not	
7	available in the non volatile memory.	
8		
1	17. The internet telephony device of claim 15, wherein the internet telephony	

2	provisioning module:	
3	determines whether telephony provisioning resources are included in a DHCP	
4	response provided by the DHCP server; and	
5	sends a provisioning inquiry to a provisioning entity associated with the	
6	provisioning contact in response to determining that the DHCP response does not	
7	include telephony provisioning resources.	
8		
1	18. The internet telephony device of claim 17, wherein the internet telephony	
2	provisioning module:	
3	stores the provisioning contact in the non volatile memory in response to	
4	receiving the response that includes a provisioning contact; and	
5	sends the inquiry to the pre-provisioning server at the pre-provisioning contact in	
6	response to determining that the provisioning contact is not available in the non volatile	
7	memory.	
8		
1	19. A method of discovering internet telephony provisioning information, the method	
2	comprising:	
3	storing a unique device ID number assigned to a device and a pre-provisioning	
4	contact in a non volatile memory;	
5	obtaining a network configuration from a DHCP server; and	
6	using the network configuration to:	
7	send an inquiry to a pre-provisioning server at the pre-provisioning	
8	contact, the inquiry comprising the unique ID number;	
9	receiving a response to the inquiry that includes a provisioning contact;	
10	sending a provisioning inquiry to a provisioning entity associated with the	
11	provisioning contact; and	
12	obtaining provisioning information in response to the provisioning inquiry,	
13	the provisioning information selected from a group of provisioning information consisting	
14	of a telephony configuration parameters associated with the device ID number and	
15	identification of provisioning servers associated with the device ID number which in turn	

16	provide telephony configuration parameters.
17	
1	20. The method of claim 19, wherein:
2	the step of sending the inquiry to the pre-provisioning server at the pre-
3	provisioning contact comprises initiating a hyper text transport protocol link to the pre-
4	provisioning server and sending the inquiry on the hyper text transport protocol link; and
5	the step of receiving the response to the inquiry comprising receiving the
6	response on the hyper text transport protocol link.
7	
1	21. The method of claim 20, wherein the provisioning contact is a provisioning
2	contact selected from a group of provisioning contacts consisting of a domain name of a
3	provisioning entry point server and a combination of an IP address and port number of a
4	provisioning entry point server.
5	
1	22. The method of claim 21:
2	further comprising storing the provisioning contact in the non volatile memory in
3	response to receiving the response that includes a provisioning contact; and
4	the step of sending the inquiry to the pre-provisioning server at the pre-
5	provisioning contact is performed in response to determining that the provisioning
6	contact is not available in the non volatile memory.
7	
1	23. The method of claim 21:
2	further comprising determining whether telephony provisioning resources are
3	included in a DHCP response provided by the DHCP server; and
4	the step of sending a provisioning inquiry to a provisioning entity associated with
5	the provisioning contact is performed in response to determining that the DHCP
6	response does not include telephony provisioning resources.
7	
1	24. The method of claim 23,
2	further comprising storing the provisioning contact in the non volatile memory in

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3	response to receiving the response that includes a provisioning contact; and
4	the step of sending the inquiry to the pre-provisioning server at the pre-
5	provisioning contact is performed in response to determining that the provisioning
6	contact is not available in the non volatile memory.
7	